



02-14-07

Attorney's Docket No.: 17106-024001/1613

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Edwin Madison et al.
Patent No. : 7,125,703
Issue Date : October 24, 2006
Serial No. : 10/099,700
Filed : March 13, 2002
Title : NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE
SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS
BASED THEREON

Art Unit : 1652
Examiner : William W. Moore
Conf. No. : 4309

Attn: Certificate of Correction Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL LETTER

Transmitted herewith are a Request for a Certificate of Correction pursuant to C.F.R. § 1.322 (2 pages), Certificate of Correction Form PTO-1050 (1 page), a copy of 6 pages of the Examiner-initialed PTO-1449 mailed on December 17, 2003, and a return postcard for filing in connection with the above-identified application. As all errors were made by the PTO, no fee is due. However, should it be determined that a fee is required, the Commissioner is authorized to charge Deposit Account No. 06-1050, as stated below:

- ☒ The Commissioner is hereby authorized to charge any fees that may be due in connection with this paper or with this application during its entire pendency to Deposit Account No. 06-1050. A duplicate of this sheet is enclosed.

Respectfully submitted,

Stephanie Seidman
Reg. No. 33,779

Attorney Docket No. 17106-024001/1613
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**Certificate
of Correction**
FEB 16 2007

CERTIFICATE OF MAILING BY "EXPRESS MAIL"
"Express Mail" Mailing Label Number EV 740125334 US
Date of Deposit February 12, 2007
I hereby certify that this paper is being deposited with the United States Postal "Express Mail Post Office to Addressee" Service under 37 CFR §1.10 on the date indicated above and is addressed to: Commissioner for Patents, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA, 22313-1450.

Stephanie Seidman



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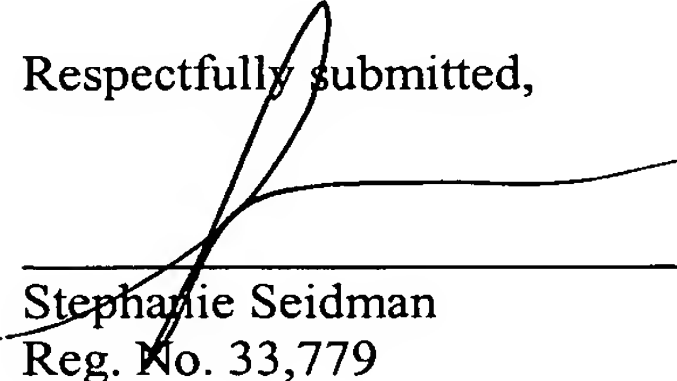
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Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REQUEST FOR CERTIFICATE OF CORRECTION

Dear Sir:

Pursuant to 37 C.F.R. § 1.322, the patentee respectfully requests that a Certificate of Correction be issued for the above referenced patent to correct the following errors:

IN THE TITLE PAGES:

In Item (56) References Cited, in FOREIGN PATENT DOCUMENTS:

please replace "WO 95341326 12/1995" with —WO 9534326 12/1995—.

In Item (56) References Cited, in OTHER PUBLICATIONS:

in Gardner et al., please replace "necleotide" with: — nucleotide —.

in Grosschedl et al., please replace "aμ" with — a μ —.

in Magram et al., please replace "regualtion" with — regulation —.

in Simar Blanchet et al., please replace "Simar Blanchet" with: — Simar-Blanchet —.

in Zhou et al., please replace "Emcodes" with — Encodes —.

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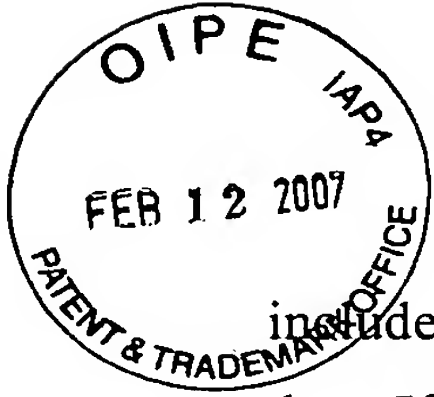
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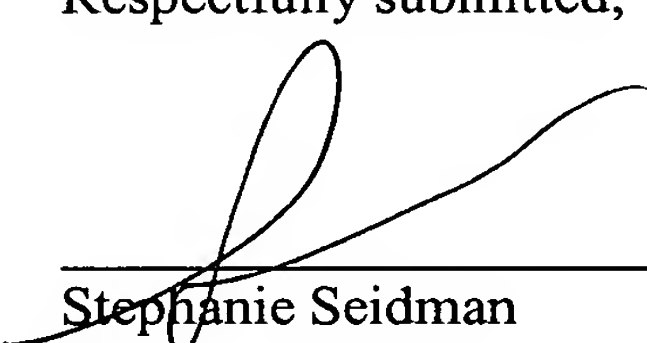
REMARKS

A Certificate of Correction (Form PTO-1050) incorporating the above changes is included with this Request. Since all of the errors are those of the Patent Office, no fee is due. If it is determined that a fee is required, the Office is hereby authorized to charge the fee to Deposit Account No. 06-1050.

This Certificate of Correction seeks to correct typographical errors made by the PTO in the "FOREIGN PATENT DOCUMENTS" section of the References Cited, Item (56), and in the "OTHER PUBLICATIONS" section of the References Cited, Item (56). Basis for these corrections can be found on the front pages of the references which were previously submitted to the Patent Office. A copy of the six (6) relevant pages of the examiner-initialed PTO-1449 form delivered on December 17, 2003 is attached herewith as evidence that the reference details were correctly submitted by the applicant.

Accordingly, none of the requested changes constitute new matter. Patentee respectfully requests correction of errors by issuance of a Certificate of Correction.

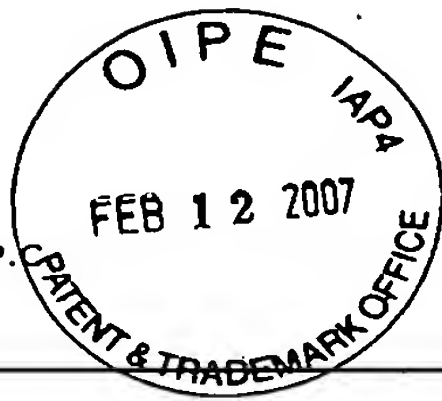
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Only**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**Page 1 of 1

PATENT NO. : 7,125,703
APPLICATION NO : 10/099,700
DATED : OCTOBER 24, 2006
INVENTOR(S) : EDWIN MADISON AND EDGAR ONG

It is certified that an error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

IN THE TITLE PAGES:

In Item (56) References Cited, in FOREIGN PATENT DOCUMENTS:

please replace "WO 95341326 12/1995" with —WO 9534326 12/1995—.

In Item (56) References Cited, in OTHER PUBLICATIONS:

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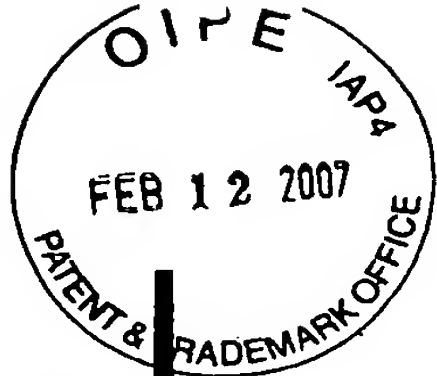
in Simar Blanchet et al., please replace "Simar Blanchet" with: — Simar-Blanchet —.

in Zhou et al., please replace "Emcodes" with — Encodes —.

MAILING ADDRESS OF SENDER:

Stephanie Seidman
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P.O. Box 1022
Minneapolis, Minnesota 55440-1022

FEB 16 2007



Sheet 5 of 36

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
24745-1613SERIAL NO.
10/099,700LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENTAPPLICANT
MADISON et al.FILING DATE
March 13, 2002

GROUP

1643 1652

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	*Ref. Code	DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	Translation	
													Yes	No
WWM	CL	9	2	0	6	2	0	3	04/16/92	PCT				
↑	CM	9	2	2	0	3	1	6	11/26/92	PCT				
	CN	9	2	2	2	6	3	5	12/23/92	PCT				
	CO	9	3	1	4	1	8	8	07/22/93	PCT				
	CP	9	3	2	0	2	2	1	10/14/93	PCT				
	CQ	9	3	2	5	2	2	1	23/12/93	PCT				
	CR	9	4	0	8	5	9	8	04/28/94	PCT				
	CS	9	4	1	7	7	8	4	18/08/94	PCT				
	CT	9	5	1	1	7	5	5	05/04/95	PCT				
	CU	9	5	3	4	3	2	6	12/21/95	PCT				
	CV	9	7	3	9	0	2	1	10/23/97	PCT				
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	CX	9	8	2	1	3	2	0	05/22/98	PCT				
WWM	CY	9	8	3	2	6	1	9	07/01/99	PCT				

X = An English language equivalent is provided.

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

WWM	CZ	Abraham et al., "Immunochemical Identification of the Serine Protease Inhibitor α_1 -Antichymotrypsin in the Brain Amyloid Deposits of Alzheimer's Disease", <i>Cell</i> , 52:487-501 (1988)
WWM	DA	Adams et al., "The c-myc oncogene driven by immunoglobulin enhancers induces lymphoid malignancy in transgenic mice", <i>Nature</i> , 318:533-538 (1985)
WWM	DB	Alam et al., "Reporter Genes: Application to the Study of Mammalian Gene Transcription", <i>Anal. Biochem.</i> , 188:245-254 (1990)
WWM	DC	Alexander et al., "Expression of the c-myc Oncogene under Control of an Immunoglobulin Enhancer in Eμ-myc Transgenic Mice", <i>Mol. Cell Biol.</i> , 7(4):1436-1444 (1987)

EXAMINER

William W. Madison

DATE CONSIDERED

29 October 2003

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED THEREON

FEB 16 2007

FORM PTO-1449 (Modified)	ATTY. DOCKET NO. 24745-1613	SERIAL NO. 10/099,700
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	APPLICANT MADISON et al.	
	FILING DATE March 13, 2002	GROUP 1645 1652

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

WMM	GW	Gallop et al., "Applications of Combinatorial Technologies to Drug Discovery. 1. Background and Peptide Combinatorial Libraries", <i>J. Med. Chem.</i> , <u>37</u> (9):1233-1251 (1994)
↑	GX	Gante, "Peptidomimetics-tailored Enzyme Inhibitors", <i>Angew. Chem. Int. Ed. Engl.</i> , <u>33</u> :1699-1720 (1994)
	GY	Garcia et al., "The E. coli dnaY Gene Encodes an Arginine Transfer RNA", <i>Cell</i> <u>45</u> : 453-459 (1986)
	GZ	Gardner et al., "The complete nucleotide sequence of an infectious clone of cauliflower mosaic virus by M13mp7 shotgun sequencing", <i>Nucleic Acids. Res.</i> , <u>9</u> (12):2871-2888 (1981)
	HA	Gautier et al., "α-DNA IV: α-anomeric and β-anomeric tetrathymidylates covalently linked to intercalating oxazolopyridocarbazole. Synthesis, physicochemical properties and poly (rA) binding", <i>Nucl. Acids Res.</i> , <u>15</u> :6625-6641 (1987)
	HB	Gavazzi et al., "Responsiveness of sympathetic and sensory iridial nerves to NGF treatment in young and aged rats", <i>Neurobiol. of Aging</i> , <u>22</u> :287-297 (2001)
	HC	Georgiou et al., "Practical applications of engineering Gram-negative bacterial cell surfaces", <i>TIBTECH</i> , <u>11</u> :6-10 (1993)
	HD	Gething et al., "Variants of human tissue-type plasminogen activator that lack specific structural domains of the heavy chain", <i>EMBO J.</i> , <u>7</u> (9):2731-2740 (1988)
	HE	Geysen et al., "Use of peptide synthesis to probe viral antigens for epitopes to a resolution of a single amino acid", <i>Proc. Natl. Acad. Sci. USA</i> , <u>81</u> :3998-4002 (1984)
TECH CENTER 1600/2900	HF	Ghendler et al., "Schistosoma mansoni: Isolation and Characterization of Smpi56, a Novel Serine Protease Inhibitor", <i>Exp. Parasitol.</i> , <u>78</u> :121-131 (1994)
RECEIVED JAN 9 2003	HG	Gilbert et al., "Useful Proteins from Recombinant Bacteria", <i>Scientific American</i> , <u>242</u> :79-94 (1980)
	HH	Glaser et al., "Antibody Engineering by Condon-Based Mutagenesis in a Filamentous Phage Vector System", <i>J. Immunol.</i> , <u>149</u> (12):3903-3913 (1992)
	HI	Goldmacher et al., "Photoactivation of "Toxin Conjugates", <i>Bioconj. Chem.</i> , <u>3</u> :104-107 (1992)
WMM	HJ	Goldspiel et al., "Human gene therapy", <i>Clinical Frontiers, Clinical Pharmacy</i> , <u>12</u> :488-505 (1993)

EXAMINER

WMM

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March 13, 2002

GROUP

1643

1652

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

WMM	HK	Gonzalez et al., "Voltage Sensing by Fluorescence Resonance Energy Transfer in Single Cells", <i>Biophys. J.</i> , <u>69</u> :1272-1280 (1995)
	HL	Gram et al., "In vitro selection and affinity maturation of antibodies from a naive combinatorial immunoglobulin library", <i>Proc. Natl. Acad. Sci. USA</i> , <u>89</u> :3576-3580 (1992)
	HM	Grosschedl et al., "Introduction of a μ Immunoglobulin Gene into the Mouse Germ Line: Specific Expression in Lymphoid Cells and Synthesis of Functional Antibody", <i>Cell</i> , <u>38</u> :647-658 (1984)
	HN	Grossman et al., "Retroviruses: delivery vehicle to the liver", <i>Curr. Opin. in Genetics and Devel.</i> , <u>3</u> :110-114 (1993)
	HO	Grunstein et al., "Colony hybridization: A method for the isolation of cloned DNAs that contain a specific gene", <i>Proc. Natl. Acad. Sci. USA</i> , <u>72</u> (10):3961-3965 (1975)
	HP	Hamdaoui et al., "Purification of a Novel, Heat-Stable Serine Protease Inhibitor Protein from Ovaries of the Desert Locust, <i>Schistocerca gregaria</i> ", <i>Biochem. Biophys. Res. Commun.</i> , <u>238</u> :357-360 (1997)
	HQ	Hameed et al., "3,4-Dichloroisocoumarin Serine Protease Inhibitor Induces DNA Fragmentation and Apoptosis in susceptible Target Cells", <i>DCI AND APOPTOSIS, Proc. Soc. Exp. Biol. Med.</i> , <u>219</u> (2):132-137 (1998)
	HR	Hamilton et al., "A Species of Small Antisense RNA in Posttranscriptional Gene Silencing in Plants", <i>Science</i> , <u>286</u> :950-952 (1999)
	HS	Hammer et al., "Diversity of Alpha-Fetoprotein Gene Expression in Mice Is Generated by a Combination of Separate Enhancer Elements", <i>Science</i> , <u>235</u> :53-58 (1987)
	HT	Hammond et al., "An RNA-directed nuclease mediates post-transcriptional gene silencing in <i>Drosophila</i> cell", <i>Nature</i> , <u>404</u> :293-296 (2000)
WMM	HU	Hammond et al., "Post-Transcriptional Gene Silencing by Double-Stranded RNA", <i>Nature</i> , <u>2</u> :110-119 (2001)
	HV	Han et al., "Liquid-Phase Combinatorial Synthesis", <i>Proc. Natl. Acad. Sci. USA</i> , <u>92</u> :6419-6423 (1995)
	HW	Hanahan, D., "Heritable formation of pancreatic β -cell tumours in transgenic mice expressing recombinant insulin/simian virus 40 oncogenes", <i>Nature</i> , <u>315</u> :115-122 (1985)
	HX	Harper et al., "Reaction of Serine Proteases with Substituted Isocoumarins: Discovery of 3,4-Dichloroisocoumarin, a New General Mechanism Based Serine Protease Inhibitor" <i>Biochem.</i> , <u>24</u> :1831-1841 (1985)

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1645/652

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

LO	Madison et al., "Restoration of Serine Protease-Inhibitor Interaction by Protein Engineering", <i>J. Biol. Chem.</i> , <u>265</u> (35):21423-21426 (1990)
LP	Madison et al., "Amino acid residues that affect interaction of tissue-type plasminogen activator with plasminogen activator inhibitor 1", <i>Proc. Natl. Acad. Sci. USA</i> , <u>87</u> (9):3530-3533 (1990)
LQ	Madison et al., "Serpine-resistant mutants of human tissue type plasminogen activator", <i>Nature</i> , <u>339</u> (6227):721-724 (1989)
LR	Magram et al., "Developmental regulation of a cloned adult β -globin gene in transgenic mice", <i>Nature</i> , <u>315</u> :338-340 (1985)
LS	Marks et al., "By-Passing Immunization. Human Antibodies from V-Gene Libraries Displayed on Phage", <i>J. Mol. Biol.</i> , <u>222</u> :581-597 (1991)
LT	Marlor et al., "Identification and Cloning of Human Placental Bikunin, a Novel Serine Protease Inhibitor Containing Two Kunitz Domains", <i>J. Biol. Chem.</i> , <u>272</u> (18):12202-12208 (1997)
LU	Mason et al., "The Hypogonadal Mouse, Reproductive Functions Restored by Gene Therapy", <i>Science</i> <u>234</u> :1372-1378 (1986)
LV	Mastrangeli et al., "Diversity of Airway Epithelial Cell Targets for In Vivo Recombinant Adenovirus-mediated Gene Transfer", <i>J. Clin. Invest.</i> <u>91</u> :225-234 (1993)
LW	Matrisian et al., "Stromelysin/transin and tumor progression", <i>Cancer Biol.</i> , <u>1</u> :107-115 (1990)
LX	Matsushima et al., "Structural Characterization of Porcine Enteropeptidase", <i>J. Biol. Chem.</i> , <u>269</u> (31):19976-19982 (1994)
LY	Matthews et al., "Substrate Phage: Selection of Protease Substrates by Monovalent Phage Display", <i>Science</i> , <u>260</u> :1113-1117 (1993)
LZ	McCafferty et al., "Phage Enzymes: Expression and Affinity Chromatography of Functional Alkaline Phosphatase on the Surface of Bacteriophage", <i>Protein Eng.</i> , <u>4</u> (8):955-961 (1991)
MA	McDonald, "Thrombopoietin. Its Biology, clinical Aspects, and Possibilities", <i>Am. J. of Pediatric Hematology/Oncology</i> , <u>14</u> (1):8-21 (1992)
MB	Mc Donnell et al., "Stromelysin in tumor progression and metastasis", <i>Cancer and Metastasis Reviews</i> , <u>9</u> :305-319 (1990)

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LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	APPLICANT MADISON et al.	
	FILING DATE March 13, 2002	GROUP 1645 /152

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>WMM</i>	QC	Sears et al., "Engineering Enzymes for Bioorganic Synthesis: Peptide Bond Formation", <i>Biotechnol. Prog.</i> , <u>12</u> :423-433 (1996)
<i>↑</i>	QD	Sekar et al., "Specificity of the Serine Protease Inhibitor, Phenylmethylsulfonyl Fluoride", <i>Biochem. Biophys. Res. Commun.</i> , <u>89</u> (2):474-478 (1979)
	QE	Senda et al., "Treatment of Ulcerative Colitis with Camostat Mesilate, A Serine Protease Inhibitor", <i>Intern. Med.</i> , <u>32</u> (4):350-354 (1993)
	QF	Senter et al., "Novel Photocleavable Protein Crosslinking Reagents and Their Use in the Preparation of Antibody-Toxin Conjugates", <i>Photochem. Photobiol.</i> , <u>42</u> (3):231-237 (1985)
	QG	Seto et al., "Central Effect of Aprotinin, a Serine Protease Inhibitor, on Blood Pressure in Spontaneously Hypertensive and Wistar-Kyoto Rats", <i>Adv. Exp. Med. Biol.</i> , <u>247B</u> :49-54 (1989)
	QH	Seto et al., "The Effect of Aprotinin (A Serine Protease Inhibitor) on Renal Function and Renin Release", <i>Hypertension</i> , <u>5</u> (6):893-899 (1983)
	QI	Shani, M., "Tissue-specific expression of rat myosin light-chain 2 gene in transgenic", <i>Nature</i> , <u>314</u> :283-286 (1985)
	QJ	Sharp, P.A., "RNA interference—2001", <i>Genes & Develop.</i> , <u>15</u> :485-490 (2001)
	QK	Shilo et al., "DNA sequences homologous to vertebrate oncogenes are conserved in <i>Drosophila melanogaster</i> ", <i>Proc. Natl. Acad. Sci.</i> , <u>78</u> (11):6789-6792 (1981)
	QL	Shimomura et al., "Hepatocyte Growth Factor Activator Inhibitor, a Novel Kunitz-type Serine Protease Inhibitor", <i>J. Biol. Chem.</i> , <u>272</u> (10):6370-6376 (1997)
	QM	Shiozaki et al., "Effect of FUT-187, Oral Serine Protease Inhibitor, on Inflammation in the Gastric Remnant", <i>Jpn. J. Cancer Chemother.</i> , <u>23</u> (14):1971-1979 (1996)
	QN	Shohet et al., "Inhibitor-Resistant Tissue-Type Plasminogen Activator: An Improved Thrombolytic Agent In Vitro", <i>Thromb. Haemost.</i> , <u>71</u> (1):124-128 (1994)
	QO	Silverman et al., "New assay technologies for high-throughput screening", <i>Curr. Opin. Chem. Biol.</i> , <u>2</u> (3):397-403 (1998)
	QP	Simar-Blanchet et al., "Regulation of expression of the rat serine protease inhibitor 2.3 gene by glucocorticoids and interleukin-6. A complex and unusual interplay between positive and negative <i>cis</i> -acting elements", <i>Eur. J. Biochem.</i> , <u>236</u> (2):638-648 (1996)

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DEMARK OF PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 24745-1613	SERIAL NO. 10/099,700
	APPLICANT MADISON et al.	
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WCM	TG	Yi <i>et al.</i> , "Bikunin, a Serine Protease Inhibitor, is Present on the Cell Boundary of Epidermis", <i>J. Invest. Dermatol.</i> , <u>113</u> (2):182-188 (1999)
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TECH CENTER 1600/2900	TP	Zijlstra <i>et al.</i> , "Germ-line transmission of a disrupted β_2 -microglobulin gene produced by homologous recombination in embryonic stem cells", <i>Nature</i> , <u>342</u> :435-438 (1989)
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